

[ENGINE CONTROL WITH FUEL QUALITY SENSOR]

Abstract of Disclosure

A system is described using a fuel quality sensor for controlling various aspects of engine operation. In particular, an acoustic wave sensor is utilized to measure viscosity and density of gasoline fuels. This measurement is utilized to predict engine combustion quality during an engine start. Based on the prediction, the method adjusts engine operating parameters (such as fuel injection amount and ignition timing) to achieve improved vehicle driveability and engine combustion.

Figures